

# Tao Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1177520/publications.pdf>

Version: 2024-02-01

109  
papers

1,337  
citations

394421

19  
h-index

395702

33  
g-index

109  
all docs

109  
docs citations

109  
times ranked

940  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Isolation and Compact Diplexer Using the Hybrid Resonators. IEEE Microwave and Wireless Components Letters, 2010, 20, 551-553.	3.2	139
2	Compact Quarter-Wave Resonator and Its Applications to Miniaturized Diplexer and Triplexer. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 260-269.	4.6	112
3	Compact Hybrid Resonator With Series and Shunt Resonances Used in Miniaturized Filters and Balun Filters. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 390-402.	4.6	95
4	Tunable 1.25~2.1-GHz 4-Pole Bandpass Filter With Intrinsic Transmission Zero Tuning. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1569-1578.	4.6	52
5	Bandpass-to-Bandstop Reconfigurable Tunable Filters with Frequency and Bandwidth Controls. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2288-2297.	4.6	47
6	Single-Layer Dual-Band Balanced Substrate-Integrated Waveguide Filtering Power Divider for 5G Millimeter-Wave Applications. IEEE Microwave and Wireless Components Letters, 2020, 30, 585-588.	3.2	39
7	Folded Substrate Integrated Waveguide Based Composite Right/Left-Handed Transmission Line and Its Application to Partial SHS-Plane Filters. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 789-799.	4.6	38
8	A Simple and Effective Method for 1.9~3.4-GHz Tunable Diplexer With Compact Size and Constant Fractional Bandwidth. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 436-449.	4.6	38
9	A 1.3~2.08 GHz Filtering Power Divider With Bandwidth Control and High In-Band Isolation. IEEE Microwave and Wireless Components Letters, 2016, 26, 407-409.	3.2	36
10	A Microstrip Magnetic Dipole Yagi-Uda Antenna Employing Vertical I-Shaped Resonators as Parasitic Elements. IEEE Transactions on Antennas and Propagation, 2018, 66, 3910-3917.	5.1	35
11	Super Compact Low-Temperature Co-Fired Ceramic Bandpass Filters Using the Hybrid Resonator. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2896-2907.	4.6	34
12	Compact UWB Half-Mode SIW Bandpass Filter With Fully Reconfigurable Single and Dual Notched Bands. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 65-74.	4.6	27
13	Novel Reconfigurable Single-to-Balanced, Power-Dividing, and Single-Ended Filter With Frequency and Bandwidth Control. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 670-682.	4.6	26
14	The thin film bulk acoustic wave resonator based on single-crystalline 43°-Y-cut lithium niobate thin films. AIP Advances, 2020, 10, .	1.3	26
15	Novel Reconfigurable Filtering Rat-Race Coupler, Branch-Line Coupler, and Multiorder Bandpass Filter With Frequency, Bandwidth, and Power Division Ratio Control. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1496-1509.	4.6	25
16	Broadband Millimeter-Wave Power Combiner Using Compact SIW to Waveguide Transition. IEEE Microwave and Wireless Components Letters, 2015, 25, 567-569.	3.2	24
17	Mo/Ti multilayer Bragg reflector for LiNbO3 film bulk acoustic wave resonators. Journal of Applied Physics, 2020, 128, .	2.5	23
18	Very Compact and Low-Profile LTCC Unbalanced-to-Balanced Filters With Hybrid Resonators. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1925-1936.	4.6	22

#	ARTICLE	IF	CITATIONS
19	An improved broadband transition between microstrip and empty substrate integrated waveguide. <i>Microwave and Optical Technology Letters</i> , 2016, 58, 2227-2231.	1.4	21
20	Compact Self-Shielded 2–3 GHz High-Q Coaxial Fixed and Tunable Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 3370-3379.	4.6	20
21	Low Phase Noise Concurrent Dual-Band Oscillator Using Compact Diplexer. <i>IEEE Microwave and Wireless Components Letters</i> , 2015, 25, 672-674.	3.2	20
22	X-Band low-phase noise oscillator employing substrate integrated waveguide dual-mode filter. <i>Electronics Letters</i> , 2015, 51, 494-495.	1.0	18
23	Design of Millimeter Wave Wideband Transition From Double-ridge Waveguide to Coaxial Line. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 26-33.	2.2	17
24	Novel 1.5-1.9 GHz Tunable Single-to-Balanced Bandpass Filter With Constant Bandwidth. <i>IEEE Microwave and Wireless Components Letters</i> , 2016, 26, 972-974.	3.2	17
25	Tunable Bandstop Filter Using Distributed Coupling Microstrip Resonators With Capacitive Terminal. <i>IEEE Microwave and Wireless Components Letters</i> , 2020, 30, 35-38.	3.2	17
26	Novel Compact Coupler With Tunable Frequency, Phase Difference, and Power-Dividing Ratio. <i>IEEE Microwave and Wireless Components Letters</i> , 2021, 31, 1119-1122.	3.2	16
27	Full Ka-band right-angle transition from substrate integrated waveguide to air-filled rectangular waveguide. <i>Electronics Letters</i> , 2015, 51, 1796-1798.	1.0	15
28	A 10.23–15.7-GHz Varactor-Tuned Microstrip Bandpass Filter With Highly Flexible Reconfigurability. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 4499-4509.	4.6	14
29	Novel Reconfigurable Negative Group Delay Circuits With Independent Group Delay and Transmission Loss/Gain Control. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 1293-1303.	4.6	13
30	Novel Passive Vector-Sum Reconfigurable Filtering Phase Shifter With Continuous Phase-Control and Tunable Center Frequency. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 1188-1197.	4.6	12
31	A reconfigurable in-phase/out-of-phase and power-dividing ratio power divider. , 2017, , .		11
32	A Novel Fully Reconfigurable Non Foster Capacitance Using Distributed Negative Group Delay Networks. <i>IEEE Access</i> , 2019, 7, 92768-92777.	4.2	11
33	Substrate Integrated Waveguide Equalizers and Attenuators With Surface Resistance. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 1487-1495.	4.6	11
34	Novel Evanescent-Mode Cavity Filter With Reconfigurable Rat-Race Coupler, Quadrature Coupler and Multi-Pole Filtering Functions. <i>IEEE Access</i> , 2020, 8, 32688-32697.	4.2	11
35	Design of a wideband transition from double-ridge waveguide to microstrip line. , 2010, , .		10
36	A Novel 1.7–2.85-GHz Filtering Crossover With Independently Tuned Channel Passbands and Reconfigurable Filtering Power-Dividing Function. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 2458-2469.	4.6	10

#	ARTICLE	IF	CITATIONS
37	Novel compact ultra-wideband bandpass filter based on vialess vertical CPW/microstrip transitions. Electronics Letters, 2017, 53, 1258-1260.	1.0	9
38	Rejection of Spoof SPPs Using the Second Resonant Mode of Vertical Split-Ring Resonator. IEEE Microwave and Wireless Components Letters, 2019, 29, 23-25.	3.2	9
39	A Tunable Vector-Sum Filtering Power Divider With Continuously Tuned Frequency and Arbitrary Output Phase Difference. IEEE Microwave and Wireless Components Letters, 2020, 30, 1033-1036.	3.2	9
40	5G Millimeter-Wave Substrate-Integrated Waveguide Quad-Channel Diplexer With High In-Band and Wideband Isolation. IEEE Microwave and Wireless Components Letters, 2021, 31, 650-653.	3.2	9
41	Continuously tunable SIW phase shifter based on the buried varactors. IEICE Electronics Express, 2015, 12, 20150165-20150165.	0.8	8
42	Broadband phase shifters using comprehensive compensation method. Microwave and Optical Technology Letters, 2017, 59, 766-770.	1.4	8
43	Broadband suspended stripline to air-filled rectangular waveguide transition. Electronics Letters, 2015, 51, 1886-1888.	1.0	7
44	Robust Microstrip to Empty Substrate-Integrated Waveguide Transition Using Tapered Artificial Dielectric Slab Matrix. IEEE Microwave and Wireless Components Letters, 2020, 30, 849-852.	3.2	7
45	1.866–2.782-GHz Reconfigurable Filtering Single-Pole-Multithrow Switches Based on Evanescent-Mode Cavity Resonators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1355-1364.	4.6	7
46	A Novel 1.05 GHz to 1.25 GHz Filtering Antenna Feeding Network With Reconfigurable Frequency and Polarization. IEEE Transactions on Antennas and Propagation, 2022, 70, 156-166.	5.1	7
47	Compact high selectivity UWB filter using composite CPW-microstrip structure. IEICE Electronics Express, 2016, 13, 20161049-20161049.	0.8	6
48	Ultra-wideband power divider employing coupled line and short-ended stub. Microwave and Optical Technology Letters, 2016, 58, 713-715.	1.4	6
49	Low loss and broadband transition between substrate integrated waveguide and rectangular waveguide. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 54-61.	1.2	6
50	A novel ultra-wideband bandpass filter using defected microstrip structures. IEICE Electronics Express, 2016, 13, 20160165-20160165.	0.8	6
51	Novel Tunable Isolation Network Used in Ring-Type Single-to-Balanced, Power-Dividing, and Single-Ended Filter With Arbitrary Power-Division Ratios. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 666-680.	4.6	6
52	Design of Wide Stopband for Waveguide Low-Pass Filter Based on Circuit and Field Combined Analysis. IEEE Microwave and Wireless Components Letters, 2021, 31, 1199-1202.	3.2	6
53	Arbitrary-Order Balanced Filter With Reflectionless Characteristics for Both Common- and Differential-Mode Signals. IEEE Microwave and Wireless Components Letters, 2021, 31, 553-556.	3.2	6
54	2–2.2 GHz Reconfigurable 1 × 4 Filtering Beamforming Network Using Novel Filtering Switch-Coupler and Twisted Rat-Race Coupler. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2462-2472.	4.6	6

#	ARTICLE	IF	CITATIONS
55	A Novel Metamaterial Transmission Line With Adjustable Left-Handed Elements and Its Application to $\frac{1}{\epsilon}$ -Plane Filter. IEEE Microwave and Wireless Components Letters, 2018, 28, 774-776.	3.2	5
56	Novel Single-Ended-to-Balanced Filter With Reconfigurable Working Modes, Frequency, Bandwidth, and Single/Dual-Band Operations. IEEE Access, 2021, 9, 14216-14227.	4.2	5
57	A microstrip bandpass filter with tunable bandwidth and center frequency. Microwave and Optical Technology Letters, 2021, 63, 2333-2336.	1.4	5
58	Fast and Accurate Spectrum Estimation via Virtual Coarray Interpolation Based on Truncated Nuclear Norm Regularization. IEEE Signal Processing Letters, 2022, 29, 169-173.	3.6	5
59	$X$ -Band Ferrite Microstrip Limiter Based on Improved Nonlinear Loss Model for High-Power Microwave Application. IEEE Microwave and Wireless Components Letters, 2022, 32, 1015-1018.	3.2	5
60	Novel Passive Vector-Sum Amplitude-Variable Phase Shifter With Integrated Reconfigurable Filtering Function. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3511-3523.	4.6	5
61	A novel compact microstrip bandpass filter using folded stepped impedance resonators. Microwave and Optical Technology Letters, 2008, 50, 1864-1867.	1.4	4
62	A new way of bandpass filter design based on zeroth-order and negative-order resonance modes. , 2009, , .		4
63	$X$ -band low phase noise loop oscillator with differential outputs. Electronics Letters, 2015, 51, 1005-1007.	1.0	4
64	Compact CPW-fed ultra-wideband printed antennas with controllable notch characteristics. Microwave and Optical Technology Letters, 2018, 60, 2824-2830.	1.4	4
65	A Compact Physical Drain Current Model of Multitube Carbon Nanotube Field Effect Transistor Including Diameter Dispersion Effects. IEEE Transactions on Electron Devices, 2021, 68, 6571-6579.	3.0	4
66	Design and Synthesis of Reconfigurable Filtering Phase Shifter Using Optimization of Coupling Matrix. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3886-3896.	4.6	4
67	A compact bandpass filter with two finite transmission zeros using LTCC technology. , 2007, , .		3
68	Low phase noise oscillator based on quarter mode substrate integrated waveguide technique. IEICE Electronics Express, 2015, 12, 20150046-20150046.	0.8	3
69	Broadband stripline to rectangular waveguide transition. IEICE Electronics Express, 2015, 12, 20150117-20150117.	0.8	3
70	Broadband terahertz integrated waveguide transition and its application in the amplifier module. , 2015, , .		3
71	A novel SIW power divider with good out-of-band rejection and isolation. IEICE Electronics Express, 2016, 13, 20160160-20160160.	0.8	3
72	High-Gain Patch-Fed 3D-Printing Fresnel Zone Plate Lens Antenna for 60-GHz Communications. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
73	Compact W-Band Shielded Asymmetrical Coplanar Stripline to Microstrip Transition for Millimeter-Wave Applications. , 2019, , .		3
74	Miniaturized Reconfigurable Filtering Power Divider with Arbitrary Output Phase Difference and Improved Isolation. , 2021, , .		3
75	Compact Compline Bandpass Filter Using LTCC Technology. , 2007, , .		2
76	Compact wideband HMSIW bandpass filter with defected ground structure. , 2015, , .		2
77	A Compact and Broadband Differential Microstrip Line to Rectangular Waveguide Transition Using Dipole Antenna. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 582-591.	2.2	2
78	A tunable single-to-balanced bandpass filter with bandwidth control. , 2018, , .		2
79	Ultra-Wideband Variable Temperature Measurement System for Complex Permeability of Magnetic Thin Film $\text{Fe}_{66}\text{Co}_{17}\text{B}_{16}\text{Si}_1$ . IEEE Transactions on Magnetics, 2018, 54, 1-7.	2.1	2
80	Tunable bandstop filter with high suppression and wide tuning range. Electronics Letters, 2019, 55, 910-912.	1.0	2
81	Wideband Microstrip Reflectarray Antenna Using Multiple-Frequency Phase Synthesis Approach. , 2020, , .		2
82	28-GHz High-Isolation SIW Balanced Diplexer With Highly Controllable Transmission Zeros. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4799-4803.	3.0	2
83	The Design of a Ka-Band Two-Stage Monolithic Low Noise Amplifier. , 0, , .		1
84	A 2 GHz High Isolation DPDT Switch MMIC. , 0, , .		1
85	A compact combline bandpass filter designed in LTCC. Microwave and Optical Technology Letters, 2008, 50, 1897-1900.	1.4	1
86	Low Loss Compact Meander Stripline Delay Lines Using LTCC. , 2014, , .		1
87	Design of Millimeter-wave Rectangular Waveguide to HMSIW Transition Based on Trapezoidal-shaped Probe. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 909-917.	2.2	1
88	Compact rectangular waveguide to HMSIW transition. IEICE Electronics Express, 2014, 11, 20140316-20140316.	0.8	1
89	A novel tunable inverted microstrip phase shifter based on liquid crystal. , 2015, , .		1
90	Novel UWB BPF with a controllable notched band using hybrid structure. IEICE Electronics Express, 2017, 14, 20170083-20170083.	0.8	1

#	ARTICLE	IF	CITATIONS
91	A rectangular waveguide filter with integrated E-plane probe transition. IEICE Electronics Express, 2017, 14, 20161108-20161108.	0.8	1
92	A SiGe BiCMOS Digital Step Attenuator with Temperature and Phase Compensation for Phased Array System. , 2019, , .		1
93	Empty substrateâ€ integrated waveguide phase inverter in millimetreâ€ wave band application. Electronics Letters, 2020, 56, 382-385.	1.0	1
94	Synthesis design of equalâ€ length phase shifter based on substrate integrated waveguide and microstrip line. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22544.	1.2	1
95	Design of trisection filter with reconfigurable center frequency and transmission zeros using evanescentâ€ mode cavity resonators. Microwave and Optical Technology Letters, 2021, 63, 3002-3007.	1.4	1
96	Phase Measurement Based on the Six-Port Technology. , 2011, , .		0
97	Design of C-Band Six-Port Junction. , 2011, , .		0
98	Novel compact partial-H plane filter based on the composite right/left-handed transmission line in folded substrate-integrated waveguide. , 2012, , .		0
99	Broadband in-line transition from suspended stripline to rectangular waveguide. IEICE Electronics Express, 2015, 12, 20150833-20150833.	0.8	0
100	Design of a Ka-band monolithic low noise amplifier. , 2015, , .		0
101	Broadband Millimeter-Wave In-Phase and Out-of-Phase Waveguide Dividers with High Isolation. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 1076-1088.	2.2	0
102	Order: The key role in machine learning. , 2017, , .		0
103	A novel spoof SPP-fed circular patch antenna with wideband harmonic rejection. , 2017, , .		0
104	A right-angle wideband transition between differential microstrip line and rectangular waveguide. IEICE Electronics Express, 2017, 14, 20161206-20161206.	0.8	0
105	A Î€-type Isolation Network for Improvement of Matching and Isolation in Reconfigurable Multifunctional Bandpass Filter. , 2019, , .		0
106	Novel Dual-Band Beam-Scanning/Switching Network Based on a Hybrid Coupler With Synchronously Tuned Phase Differences. IEEE Access, 2021, 9, 157151-157164.	4.2	0
107	An Analysis and Design Method for Wide Range Reconfigurable Filter Bank Using Parallel Inductive Switch Network. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3381-3385.	3.0	0
108	Novel tunable dualâ€ band filter using evanescentâ€ mode cavity resonators. Microwave and Optical Technology Letters, 0, , .	1.4	0

#	ARTICLE	IF	CITATIONS
109	Low Insertion and Large Dynamic Range Substrate Integrated Waveguide Equalizer on Ceramic for Feeding Network. , 2021, , .		0